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DIALOG(R) File 351:Derwent WPI

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High concn. nitrogen- and phosphorus-contg. waste water disposal - by  
digesting in bioreactor, aerating, sepg. solids, adding flocculant etc.

Patent Assignee: KUBOTA CORP (KUBI )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 3004996	A	19910110	JP 89139775	A	19890531	199108 B

Priority Applications (No Type Date): JP 89139775 A 19890531

Abstract (Basic): JP 3004996 A

Waste water contg. a higher conc. of ammonia-derived nitrogen (NH<sub>3</sub>-N) phosphate ions, and magnesium ions is digested by aeration in a bioreactor. The water is aerated and sepd. using membrane into solids and water, or it is aerated, flocculated, then sepd. Flocculant is added to the water in acidic conditions, 10-20% of the water contg. acidic sludge is returned to the bioreactor and the remainder is sepd. with other membranes into solids and water. The NH<sub>3</sub>-N concn. is reduced to below 10 mg/litre by the aeration. The phosphate ion concn. is reduced to below 100 mg/litre by returning the water contg. acidic sludge.

ADVANTAGE - Magnesium phosphate is hardly formed in the 2nd stage, so that membranes hardly clog and the waste water can be disposed of stably over a long time. (4pp Dwg.No.0/3)ph

Derwent Class: D15

International Patent Class (Additional): C02F-003/30